

Title (en)
HIGH-STRENGTH FABRIC AND MANUFACTURING METHOD THEREFOR

Title (de)
HOCHFESTES GEWEBE UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
TISSU À HAUTE RÉSISTANCE MÉCANIQUE ET PROCÉDÉ POUR SA FABRICATION

Publication
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Application
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Abstract (en)
[origin: EP3012357A1] The invention provides a high-strength fabric and a preparation method thereof. The preparation method comprises: connecting at least one group of single yarns according to a certain law to prepare a fabric body, wherein the high-strength fabric comprises at least the fabric body, and each single yarn is prepared by converging or converging and twisting an ultra-high molecular weight polyethylene thin film or strip. The high-strength fabric has the advantages of good structural integrity, simple preparation process, high production efficiency, high strength, high strength utilization ratio, light weight, no pollution and good bulletproof performance.

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Citation (search report)

- [X] WO 2008048301 A2 20080424 - HONEYWELL INT INC [US], et al
- [X] EP 2113376 A1 20091104 - TEIJIN ARAMID BV [NL]
- [X] WO 2010122099 A1 20101028 - DSM IP ASSETS BV [NL], et al
- [X] JP H08151635 A 19960611 - TAKIRON CO
- [X] JP H0610233 A 19940118 - SAN RETSUKUSU KOGYO KK, et al
- [X] JP H08260232 A 19961008 - POLYMER PROCESSING RES INST
- See also references of WO 2014201654A1

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